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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/835,625	04/17/2001		Kenichiro Sakai	121.1012	7047
21171	7590	12/01/2005		EXAMINER	
STAAS &	HALSEY	LLP	FRANKLIN, JAMARA ALZAIDA		
SUITE 700 1201 NEW	YORK AV	/ENUE, N.W.	ART UNIT	PAPER NUMBER	
WASHING			2876		

DATE MAILED: 12/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		AL	,
	Application No.	Applicant(s)	
	09/835,625	SAKAI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jamara A. Franklin	2876	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with t	he correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by s' Any reply received by the Office later than three months after the n earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNICAT R 1.136(a). In no event, however, may a reply 1. Priod will apply and will expire SIX (6) MONTHS tatute, cause the application to become ABAND	TION. be timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 1	3 October 2005.		
	This action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice und	owance except for formal matters,		
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the applica 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-5,9-14 and 18-20 is/are rejected 7) Claim(s) 6-8 and 15-17 is/are objected to. 8) Claim(s) are subject to restriction and	drawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Exar	niner.		
10)☐ The drawing(s) filed on is/are: a)☐	accepted or b) □ objected to by t	he Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co	rrection is required if the drawing(s) i	s objected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attached Of	fice Action or form PTO-152.	
Priority under 35 U.S.C. § 119	·		
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in Appli priority documents have been rec ireau (PCT Rule 17.2(a)).	ication No reived in this National Stage	
Attachment(s)			
1) X Notice of References Cited (PTO-892)	4) Interview Sumr	nary (PTO-413)	
2) 🔲 Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Ma	ail Date	
 Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 	6) Other:	nal Patent Application (PTO-152)	

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DETAILED ACTION

Acknowledgment is made of the amendment filed 10/13/05. Claims 1-20 are currently pending.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/13/05 has been entered.

Claim Objections

2. Claims 1, 10, and 19 are objected to because of the following informalities:

in claim 1, lines 7-8, insert --a-- between "to" and "respective";

in claim 10, lines 8-9, insert --a-- between "to" and "respective"; and

in claim 19, line 10, insert --a-- between "to" and "respective".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-5, 9-14, and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Chandler et al. (US 5,296,690) (hereinafter referred to as 'Chandler').

Chandler teaches an apparatus extracting two-dimensional code from an input document, comprising:

an image scanner scanning the document, and outputting input image (48) data; and a programmed computer processor connected to said image scanner and controlling the apparatus according to a two-dimensional code extraction process, comprising:

scanning said input image data in a square block unit of MxN pixels (M and N are positive integers) (col. 6, lines 12-23),

detecting blocks (49) that satisfy specific conditions from said scanned blocks,

detecting one or more two-dimensional code regions corresponding to a respective

plurality of two-dimensional codes, each two-dimensional code region comprising a number of
neighboring and contiguous blocks (49) from among said detected blocks that satisfy specific
conditions from said scanned blocks (col. 8, lines 10-24), and

extracting the plurality of two-dimensional codes from among the detected plurality of two-dimensional code regions that have more than a predetermined number of neighboring and continuous blocks (col. 9, lines 19-34);

wherein a block that includes a ratio of white pixels and black pixels that falls within a specific range is detected as a block (49) satisfying said specific conditions (col. 6, lines 12-23);

wherein a block that includes a ratio between transition points of pixels within horizontal lines or vertical lines of the block and a total number of pixels of the block that falls within a specific range is detected as a block satisfying said specific conditions (col. 7, lines 24-38 and col. 7, line 52- col. 8, line 3);

wherein a block in which variation of vertical or horizontal projection of black pixels included in each line in the block falls within a specific range is detected as a block satisfying said specific conditions (col. 6, lines 24-34);

the method further comprising:

detecting a two-dimensional code region comprising a maximum number of detected neighboring and contiguous blocks from among the detected two-dimensional code regions; and the method further comprising:

detecting a two-dimensional code region comprising a maximum number of detected contiguous blocks (49) from among the detected two-dimensional code regions.

Allowable Subject Matter

- 5. Claims 6-8 and 15-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

 Regarding claims 6 and 15, the prior art of record fails to teach, or fairly suggest either

alone or in combination thereof, the method of extracting a square area including the detected

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position as the two-dimensional code region. No motivation has been found to combine a reference teaching the aforementioned element to arrive at the claimed invention;

Regarding claims 7 and 16, the prior art of record fails to teach, or fairly suggest either alone or in combination thereof, the method of calculating average distance between pairs of black pixels within the scanned blocks and extracting a scanned block as a detected block satisfying the specific conditions, when a determination is made that the calculated average distance exceeds a predetermined value. No motivation has been found to combine a reference teaching the aforementioned element to arrive at the claimed invention; and

Regarding claims 8 and 17, the prior art of record fails to teach, or fairly suggest either alone or in combination thereof, the method of determine an angle of inclination of a detected two-dimensional code region; and correcting the angle of inclination, if the angle of inclination exceeds a specific value. No motivation has been found to combine a reference teaching the aforementioned element to arrive at the claimed invention.

Response to Arguments

7. Applicant's arguments filed 10/13/05 have been fully considered but they are not persuasive.

In response to the newly amended independent claims, the examiner submits that the Chandler reference continues to read upon the claims as newly amended.

Chandler teaches detecting a plurality of two-dimensional code regions when the bar code reader of Chandler is used a plurality of times, thereby constituting detecting a plurality of two-dimensional code regions corresponding to a respective plurality of two-dimensional codes.

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Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Ihara et al. (US 6,650,776) teach a two-dimensional code recognition processing method,

two-dimensional code recognition processing apparatus, and storage medium.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jamara A. Franklin whose telephone number is (571) 272-2389.

The examiner can normally be reached on Monday through Friday 8:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael G. Lee can be reached on (571) 272-2398. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jamara A. Frankl

Examiner

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JAF

November 16, 2005

MICHAEL G. TEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

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